



**Department of Horticulture**

**College of Agriculture Engineering Sciences**

**University of Salahaddin**

**Subject: Deciduous Fruits (1)**

**Course Book – 3rd Stage / First Semester**

**Mrs. Kaniaw Najmadin Sharif, Msc**

**Academic Year: 2022/2023**

## Course Book

<b>1. Course name</b>	<b>Deciduous Fruit Production</b>
<b>2. Lecturer in charge</b>	<b>Mrs. Kaniaw Najmaddin Sharif</b>
<b>3. Department/ College</b>	<b>Horticulture / Agricultural engineering sciences</b>
<b>4. Contact</b>	<b>e-mail: kaniaw.sharif@su.edu.krd</b>
<b>5. Time (in hours) per week</b>	<b>Practical: 3 Hrs</b>
<b>6. Office hours</b>	<b>Availability of the lecturer to the student during the week Probably from three to four times per week if I have not lecture, or /and if the students asked me always I will be at office as I could</b>
<b>7. Course code</b>	
<b>8. Teacher's academic profile</b>	<p><b>PERSONAL DATA</b></p> <ul style="list-style-type: none"> <li>• <b>Date of Birth:28/7/1979</b></li> <li>• <b>Sex: female</b></li> <li>• <b>Nationality: Iraqi</b></li> </ul> <p><b>EDUCATION Scientific Degree: Year / Research Subject / University</b></p> <ul style="list-style-type: none"> <li>• <b>B.SC : Year / Research Title / University 2005/ horticulture/ College of Agriculture/ University of Sulaimany/ Kurdistan Region/ Iraq.</b></li> <li>• <b>M.SC : Year/ Research Title / University 2010/ Horticulture/ pomology</b></li> </ul>

	<p><b>College of Agricultural Engineering Scienses/University of Salahaddin/ Kurdistan Region/ Iraq.</b></p> <p><b>Training: 1- Language Center - Salahaddin University</b>  <b>2- E learing center Ibn-Sina Sallahadin university</b></p> <p><b>COMPUTER SKILLS:</b></p> <ul style="list-style-type: none"> <li>• Word</li> <li>• Excel</li> <li>• Power point</li> </ul> <p><b>LANGUAGES</b></p> <table border="1"> <thead> <tr> <th>Language</th> <th>Written</th> <th>Speaki</th> <th>Comprehension</th> </tr> </thead> <tbody> <tr> <td><b>Kurdish:</b></td> <td><b>Excellent</b></td> <td><b>Excellent</b></td> <td><b>Excellent</b></td> </tr> <tr> <td><b>English:</b></td> <td><b>Good</b></td> <td><b>Good</b></td> <td><b>Good</b></td> </tr> <tr> <td><b>Arabic:</b></td> <td><b>Good</b></td> <td><b>Good</b></td> <td><b>Good</b></td> </tr> </tbody> </table>	Language	Written	Speaki	Comprehension	<b>Kurdish:</b>	<b>Excellent</b>	<b>Excellent</b>	<b>Excellent</b>	<b>English:</b>	<b>Good</b>	<b>Good</b>	<b>Good</b>	<b>Arabic:</b>	<b>Good</b>	<b>Good</b>	<b>Good</b>
Language	Written	Speaki	Comprehension														
<b>Kurdish:</b>	<b>Excellent</b>	<b>Excellent</b>	<b>Excellent</b>														
<b>English:</b>	<b>Good</b>	<b>Good</b>	<b>Good</b>														
<b>Arabic:</b>	<b>Good</b>	<b>Good</b>	<b>Good</b>														
<p><b>9. Keywords</b></p>	<p><b>Description, propagation, fertilization, renovation, mulching, farm cultivation and Varity of small fruits.</b></p>																
<p><b>10. Course overview:</b></p> <p>Fruit Production is an important part of Horticulture that plays a pivotal role in the livelihoods and food and nutritional security of the community in the country. Due to existence of large agro-climatic diversity, favorable soil conditions and ample water resources, different temperate fruit crops are grown in different parts of the country. Fruit crops allow efficient utilization of resources like land, water, labor and agricultural inputs, resulting in higher income per unit of available resource while maintaining and developing the natural resource base. From a social aspect, fruit trees help people become connected to the growing process while also providing a nutritious food source and food security. Planting fruit trees also has many helpful environmental benefits, from cleaner air to reduced energy costs and green jobs. In a community setting, an orchard with fruit trees provides opportunities for residents to learn about sustainable development and growing</p>																	

your own food. In some communities, orchards open the door for green jobs and other small business opportunities. The contribution of fruits towards diversification of the economy of the country is also enormous. The development of fruit crops could provide the basis for the establishment of agro-industries, contributing for the transformation of the agriculture of Kurdistan.

#### **11. Course objective:**

The main objectives of this course are:

1. Identify different types of fruit crops, which can be successfully grown in the learner's region.
2. Explain or describe different families of deciduous fruit tree and most important groups, varieties or cultivars of each family, the description include (description of stem, leaf, flower and fruit of the tree).
3. Identify the major orchard culture practices and choosing the best time of each one that include (Irrigation, fertilization, training and pruning, weed and insect control and harvesting of fruit) and identify different method of each practices.
4. Discuss and demonstrate various methods of plant propagation.
5. Environmental factors that affect growth and development of tree and fruits.

#### **12. Student's obligation**

Some of students are response to the class very well and they do all homework and active to practice task and always present to exams. The students also must participate in class activities and present reports on subjects that I choose or they choose by their selves.

#### **13. Forms of teaching**

Generally data show will be used with power point, white board and paper of the lecture is also use.

#### **14. Assessment scheme**

There are two monthly examinations and every week there is a quiz at the beginning of the lecture or sometimes at the end of the lecture. After four lecture we will have exam

and there is a quiz at the begging of the lectures The total marks of practical part are (35%) so the mid semester exam is 25% and the rest of is divided equally on the homework, daily quiz, reports, seminars and class activity.

**15. Student learning outcome:**

EXPECTED LEARNING OUTCOMES:

On successful completion of this module the students will be able to:

1. Identify different families of deciduous fruit tree and most important groups, varieties or cultivars of each family. Describe the importance and uses of different type of fruits.
2. Identify the major differences between deciduous fruit trees according to method of training and pruning method of harvesting and quality and quantity of fertilizer that the tree needed.
3. Discuss the need of market to these productions of fruit trees and how to arrive them to the market with high quality at write time and how to store them.

▪ 16. Course Reading List and References:

- Naik, B. H. and Thippesh. 2014. Fundamentals of Horticulture and Production Technology of Fruit Crops; (2+1). College of Agriculture, Shimoga.
- Greeff, P.,Kotzé o M., Kemp, Y. and Bothma, C. (2007). The National Agricultural Marketing Council and Commark Trust. Commissioned by the Department of Agriculture. Published by NAMC Private Bag Box 935, PETORIA.
- [https://www.nps.gov/shen/learn/nature/apple\\_tree](https://www.nps.gov/shen/learn/nature/apple_tree).
- [Fruit-Tree-Production.pdf](#)
- [Production-Technology-of-Fruit-Crops K2.pdf](#)
- <https://www.fruit-crops.com/pear-pyrus-communis-pyrus-pyfifolia/>
- <https://www.rhs.org.uk/fruit/quince/grow-your-own>
- <https://www.chrisbowers.co.uk/article/the-ultimate-guide-quinces/>

**17. The Topics:**

**Lecturer's name**

Type of Fruit Trees, Pome fruit trees, Stone Fruit Trees,  
Scope of Fruit trees, Apple, Pear, Quince, Peach, Apricot,

**Mrs. Kaniaw**  
**Najmadin Sharif**

18. Practical Topics (If there is any)	Lecturer's name
<p><b>Week 1:</b> Pomology, Scope of fruit crops, Type of Fruit Trees, Pome fruit trees, Stone fruit trees, Fig and Persimmons.</p>	<p>(3 hrs) 13/9/2020</p>
<p><b>Week 2: Apple:</b> description of the tree, propagation, training and pruning, Rootstocks, Varieties, Harvesting and storage, pests and diseases.</p>	<p>(3 hrs) 20/9/2020</p>
<p><b>Week 3: Pear:</b> description of the tree, propagation, training and pruning, Rootstocks, Varieties, Harvesting and storage, pests and diseases.</p>	<p>(3 hrs) 27/9/2020</p>
<p><b>Week 4: Quince:</b> description of the tree, propagation, training and pruning, Rootstocks, Varieties, Harvesting and storage, pests and diseases.</p>	<p>(3 hrs) 4/10/2020</p>
<p style="text-align: center;"><b>1<sup>st</sup> mid-semester exam</b></p>	<p>11/10/2022</p>
<p><b>Week 5: Peach:</b></p>	<p>(3 hrs)</p>
<p><b>Week 6: Apricot</b></p>	<p>(3 hrs)</p>
<p><b>Week 7: Plum</b></p>	<p>(3 hrs)</p>
<p><b>Week 8: Cherry</b></p>	<p>(3 hrs)</p>

<b>2<sup>nd</sup> mid-semester exam</b>	
<b>Week 9: Almond</b>	<b>(3 hrs)</b>
<b>Week 11: Hawthorn</b>	<b>(3 hrs)</b>
<b>19. Examinations:</b> 1. Write the scientific name and the family of (Apple, Pear, Plum....). 2. What is the reason of the followings 3. Numerate each of the followings 4. Explain why? 5. Enumerate the followings 6. True or false type of exams: 7. Compare the following: 8. Fill the blanks with suitable words	
<b>20. Extra notes:</b>	
<b>21. Peer review</b>	<b>پیداچونہوہی ہاوہل</b>
This course book has to be reviewed and signed by a peer. The peer approves the contents of your course book by writing few sentences in this section	